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Model #: APS1250F

PowerVerter APS Inverter/Charger- with Faster Auto-Transfer Switching



Highlights

- 12V DC or 120V AC input; 120V AC output; 2 outlets
- 1250 watts continuous, 1875 watts OverPower and 2500 watts DoubleBoost inverter output
- 3 stage, 30 amp selectable wet/dry cell battery charger
- Faster Auto Transfer Switching option for battery backup / UPS operation
- Reliability enhanced large-transformer design with protected DC wiring terminals

Description

Tripp Lite's APS1250F DC-to-AC inverter with faster automatic line-to-battery transfer and integrated charging system serves as an extended run UPS, a standalone power source or an automotive inverter. Supplies up to 1250 watts of continuous 120V AC power to 2 AC outlets from any 12V battery or automotive DC source. OverPower inverter output feature temporarily provides up to 150% of the continuous output for 1-60 minutes and DoubleBoost inverter output feature delivers up to 200% of the continuous output for up to 10 seconds, providing the extra power needed to cold start heavy-duty tools and motorized equipment. When AC cable is connected to a live wall socket, commercial power passes through to connected equipment and the battery set is recharged via 3 stage, 30 amp charging system. In UPS mode, the APS system responds to blackouts and voltage fluctuations with a near instantaneous automatic transfer to battery-derived AC output. Includes a set of high current DC input terminals for simple installation (user supplies batteries and cabling - see owner's manual for recommendations). Passes sine wave utility or generator power during battery charging and UPS line power operation, plus efficient PWM sine wave AC output in inverter and UPS backup modes. Reliable large transformer design, with frequency control powers resistive electronic loads or large inductive motors, compressors and other items with high current needs on startup. Optional APSRM4 wired remote power switch with full status LEDs provides remote power inverter on/off switching and continuous status information (APSRM4 sold separately). Supports an unlimited amount of runtime with any number of user-supplied batteries connected. Highly adaptable to a variety of applications and site conditions with adjustable charger settings for wet/gel battery types and selectable line to battery power transfer voltages.

Applications

 Versatile inverter/charger system with faster auto-transfer switching serves as an automotive inverter for RVs, over-the-road trucking, conversion vans and fleet service vehicles; a standalone alternative power source for off-grid, alternative energy or export applications and as an uninterruptible power supply (UPS) for items compatible with a 8.33 millisecond (1/2 cycle) transfer time.

Package Includes

- APS1250F Inverter/Charger
- Owner's manual with warranty information

Features

- APS1250F serves as an automotive or stationary DC-to-AC inverter with automatic line-to-battery transfer and integrated battery charger
- Supports 120V AC output from a 120V AC line power source or 12V DC battery source
- Fast 8.33 millisecond automatic transfer between line and battery power supports UPS protection during blackouts and voltage fluctuations

for equipment compatible with a 1/2 cycle transfer time

- 1250 watts continuous AC output in inverter mode, 1440 watts continuous AC output in AC mode
- DoubleBoost inverter output supports momentary startup loads up to 200% of the continuous rating for up to 10 seconds
- OverPower inverter output supports longer duration overloads to 150% for 1-60 minutes under ideal battery and temperature conditions (For best results, utilize OverPower usage for as short of a duration as possible, ensure battery bank and cabling is able to provide full nominal DC voltage under load and allow inverter/charger to fully cool before and after OverPower usage)
- 3 stage, 30 amp battery charger with adjustable settings for wet/gel battery types offers fast, reliable battery recharging
- · Protected hardwire bolt-down input lugs safely accept heavy gauge input wiring from attached battery bank
- Two built-in NEMA 5-15R output receptacles pass 120V line power or inverter output through to connected equipment
- Reliability enhanced large-transformer design with secure mounting flanges and protected DC wiring terminals
- Moisture-resistant construction enables vehicular or marine operation in high humidity environments
- 3 position operating mode switch supports "AUTO" mode to enable automatic transfer between DC and AC modes, CHARGE-ONLY to maintain a full battery charge when AC is present without auto transfer and SYSTEM OFF settings
- Set of six front panel LEDs display AC/DC operational modes, overload status, DC voltage level, shutdown status and system fault status
- Set of 4 configuration dip switches support wet/gel battery charging profiles, adjustable 135/145V high voltage auto transfer during overvoltages and selectable 75/85/95/105V AC low voltage auto transfer during brownouts
- Resettable 8A charger AC input breaker and resettable 12A AC output breaker and automatic 2 speed cooling fan protect the inverter from load and temperature related failures
- Grounding lug properly connects the inverter/charger system to earth ground or vehicle grounding system
- · Automatic overload and thermal shutoff safely turns off inverter as excessive loads or overheating conditions develop
- Front panel remote control connector enables remote off/on switching (requires optional APSRM4 switch accessory). Optional APSRM4 accessory also includes user configurable jacks to support inverter shutoff or startup as a vehicle ignition is engaged.

Specifications

SYSTEM OVERVIEW Voltage compatibility 12V DC / 120V AC Frequency compatibility OUTPUT OUTPUT Output watts 1250W (continuous) / 2500W (peak) Output nominal voltage regulation 60 Hz (AC): Maintains 120V nominal sine wave output from line power source. INVERTER POWER (AC): Maintains PWM sine wave output voltage of 120 V AC (+/-5%). Output requency regulation 60 Hz (+/- 0.3 Hz) Outlet quantity / type Hardwire Overload protection Includes 8A input breaker dedicated to the charging system and 12A output breaker for AC output loads Continuous output capacity (watts) Peak output capacity (watts) INPUT Input connection type DC INPUT: Set of 2 DC bolt-down terminals. AC INPUT: NEMA 5-15P input plug Input cord length DC INPUT: User supplies cabling. 6 gauge or larger (see manual). AC INPUT: attached 6 ft. AC line cord with plug Recommended Electrical Service DC INPUT: Requires 12V DC input source capable of delivering 127A for the required duration (when used at full continuous capacity - DC requirements increase during Over-Power and Double-Boost operation). AC INPUT: 15A Maximum input amps / watts DC INPUT: Full continuous load - 127A at 12V DC. AC INPUT: 12 amps at 120VAC with full inverter and charger load (6.3A max charger-only)	OVERVIEW		
Voltage compatibility 12V DC / 120V AC Frequency compatibility 60 Hz OUTPUT Output watts 1250W (continuous) / 2500W (peak) Output nominal voltage regulation LINE POWER (AC): Maintains 120V nominal sine wave output from line power source. INVERTER POWER (AC): Maintains PWM sine wave output voltage of 120 V AC (+/-5%). Output frequency regulation Output frequency regulation Outlet quantity / type Overload protection Includes 8A input breaker dedicated to the charging system and 12A output breaker for AC output loads Continuous output capacity (watts) Peak output capacity (watts) INPUT Input connection type DC INPUT: Set of 2 DC bolt-down terminals. AC INPUT: NEMA 5-15P input plug Input cord length DC INPUT: User supplies cabling. 6 gauge or larger (see manual). AC INPUT: attached 6 ft. AC line cord with plug Recommended Electrical Service DA INPUT: Full continuous load - 127A at 12V DC. AC INPUT: 12 amps at 120VAC with full inverter and charger load (6.3A max charger-only)	Intended Application	Emergency Home Power	
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amps / watts (6.3A max charger-only)	Recommended Electrical Service	continuous capacity - DC requirements increase during Over-Power and Double-Boost operation). AC INPUT: 15A	
BATTERY	Maximum input amps / watts		
	BATTERY		

Expandable battery runtime	Runtime is expandable with any number of user supplied wet or gel type batteries
DC system voltage	12V
Battery recharge rate	30A
LEDS ALARMS & SWIT	TCHES
Front panel LEDs	Set of 6 LEDs offer continuous status information on load percentage (6 levels reported) and battery charge level (7 levels reported). See manual for sequences.
Switches	3 position on/off/remote switch enables simple on/off power control plus "auto/remote" setting that enables distant on/off control of the inverter system when used in conjunction with optional APSRM4 accessory when used in inverter mode. In AC uninterrupt
SURGE / NOISE SUPPR	RESSION
AC surge suppression	450 joules
PHYSICAL	
Shipping weight (lbs)	24.8
Shipping weight (kg)	11.3
Shipping Dimensions (HWD/in)	12.5 x 11 x 10.75
Shipping Dimensions (HWD/cm)	31.8 x 27.9 x 27.3
Unit weight (lbs)	23.5
Unit weight (kg)	10.7
Unit Dimensions (HWD/in)	7 x 8.75 x 9
Unit Dimensions (HWD/cm)	17.8 x 22.3 x 22.9
Material of construction	Polycarbonate
Form factors supported	Mounting slots enable permanent placement of inverter on any horizontal surface (see manual for additional mounting information)
Cooling method	Multi-speed fan
Style	Heavy-duty with built-in battery charger
ENVIRONMENTAL	
Relative Humidity	0-95% non-condensing
LINE / BATTERY TRAN	ISFER
Transfer time from line power to battery mode	8.33 milliseconds (1/2 cycle; typical - compatible with many computers, servers and networking equipment - verify transfer time compatibility of loads for UPS applications)
Low voltage transfer to battery power	In AC "auto" mode, inverter/charger switches to battery mode as line voltage drops to 75V (user adjustable to 85, 95, 105V - see manual)
High voltage transfer to battery power	In AC "auto" mode, inverter/charger switches to battery mode as line voltage increases to 135V (user adjustable to 145 - see manual)
SPECIAL FEATURES	
Remote control capability	Yes
BATTERY PACK ACCE	SSORY (optional)
Battery Pack Accessory (optional)	98-121 sealed lead acid battery (optional)
WARRANTY	
Product Warranty Period	1 year (Outside the U.S. and Canada, call for warranty information)

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?txtModelID=3866.

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